



OTVARC Oscillator

The Oregon Tualatin Valley Amateur Radio Club Newsletter

April 1993

From the President's Desk

By Dale Mosby, N7PEX

I'm sure most OTVARC members were jolted awake March 25th. By the time I figured out that this was an earthquake the house had stopped moving and all that was left to watch was the swinging of a couple hanging lights. Within a minute I had the radio on and found out that this was felt in Astoria and Tillamook as well as some other distant locations. Bill, N7VZF, acted as a net control on the 147.32 repeater keeping some order to the check-ins and making sure that had amateur operators been needed for communications work, that information could have been quickly sent out.

Washington County is working on an ordinance which will affect amateur radio towers. More about that appears elsewhere in this issue. Stan Griffiths, W7NI, spoke about this at our last club meeting. Using that information I drafted a letter and sent it out to about 80 club members. Thanks to Mary Jo, KB7NJE, and Harmony, N7XFR, for all the envelope addressing, stamping, and stuffing they did to help get those in the mail. And many thanks to all of you that showed up at those meetings. I was happy to see the good crowd at both sessions.

At the Next Meeting:

Wednesday, April. 7: Board meeting. 7PM - location is at Geno's (KA7BH) place. Contact any board member for address.

Wednesday, April 14: Regular club meeting at Beaverton Elks: MY FAVORITE ANTENNAS. Our speaker will give us the lowdown on how to get the very most out of a length of wire or a piece of pipe. Real live models (of antennas) will be on hand. Also...April Fools Contest (no fooling!).

Inside This Issue:

- Notes from our Editor
- Upcoming Events List
- Trading Post
- 2 Meter Net Listing
- OTVARC Contacts
- Membership Renewal Form
- Much, much more....

We need one or two people to come forward and take charge of a Christmas Program. This is a great time to volunteer for this because with Christmas so far off you can procrastinate for months. People have enjoyed special December programs in the past and I would like to see this happen this year. If you can help with this task please give me a call or talk with me about this at a meeting.

73, Dale, N7PEX

Schedule of OTVARC Events for 1993

Board meets **April 7.**

Club meeting April 14. **MY FAVORITE ANTENNAS.**

Our speaker will give us the lowdown on how to get the very most out of a length of wire or a piece of pipe. Real live models (of antennas) will be on hand.

Board meets **May 5.**

Club meeting May 12. **FIELD DAY FEVER.** Videos and actual lies of field days past. We will also have the last minute plans finalized for how we will exceed last year's eating extravaganza. Also...Bunny hunt. 2 Meters. First one to find the bunny wins. Reach The Beach Bicycle Tour

Board meets **June 2.**

Club meeting June 9. **AMATEUR TELEVISION.** Others only watch it. Hams make it happen. We will have a working demonstration of amateur TV set up for your inspection. Also...Sea-Pac Convention To Hel'en Back Bicycle Tour Field Day Trask Motorcycle Trials Cascade Runoff Rose Festival Parade Starlight Parade

Board meets **July 7.**

Club meeting July 14. **AT ANY MOMENT.** Emergency preparedness is the key to being ready to help when the need arises. Our program will give you all the inside dope on what Washington County EOC and OTVARC are doing to make sure we aren't caught with our parts down. Also...Club Picnic. Oregon Games 4th of July Parade Coors Light Duathlon

Board meets **August 4.**

Club meeting August 11. **PACKET RADIO & SWAP NIGHT.** Everything you wanted to know about packet radio will be explained by the experts. A working station will demonstrate the wonders of digital communication. Also, this is our annual swap night. We will have tailgates as well as inside tables. Bring you equipment in and leave with cash (or the other way around). Everyone wins. Also...Swap Night. MS150 Bicycle Tour Oregon Trail Bike Trek

Board meets **Sept 1.**

Club meeting Sept 8. **INTERFERENCE ELIMINATED.** Well, maybe not eliminated but at least explained. We will cover RFI, TVI and phone interference and how to eliminate or reduce these troublesome problems. Also, this is our annual TUNE UP NIGHT. Yes, we will have our hardy crew of experts on the scene to tune up that old tube rig or tweak the deviation of your handheld to perfection. Also...Art Quake Cycle Oregon Beaverton Good Neighbor Days Parade Am Rad Youth Rally

Board meets **Oct 6.**

Club meeting Oct 13. **SATELLITE COMMUNICATIONS.**

Here is a look at the ultimate in DX. We will have a live satellite station set up to look at and listen to. Satellites are the wave of the future and the future is here. Also...Halloween Contest. SSB on 10M for 1 hour. Walktoberfest

Board meets **Nov 3.**

Club meeting Nov 10. **WORKING DX.** Here is the program that tells us all how to get the really rare ones. You will Aprilvel at the trickery that goes into snagging the rare ones. There will also be tips on how to get QSLs Also...Santa Claus Parade

Board meets **Dec 1.**

Club meeting Dec 8. **NEW OFFICERS ELECTED & HOLIDAY PARTY.** Come and see who will lead us into the second half of the last decade of the year.

If you have updates for the event callendar, please contact our newsletter editor, Alan Chapmann, AA7CV.

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"When You're in the Market for Excellence"

Shake-Rattle-Roll

by Bill Merwin, N7VZF

- 04:05 - Time for bed - looking forward to a nice period of sleep.
- 05:36 - Mother Nature forgets to take her Earth Control Pills. What a wake up call. I catch a 4' curl off the end of my water bed and head to the radio shack.
- 05:37 - Turn on the rig to the District 1 frequency 147.32 and monitor to see if there has been a call-up. By the time I turned on the rig, the frequency is buzzing with everyone trying to talk at the same time. Before one can answer there is another break. Time to make a decision.
- 05:41 - N7VZF activates a District 1 ARES "Information" net to handle the traffic.
- 14:00 - N7VZF is informed he may secure from the Net. N7VZF looks at his pad with a list of over 90 checkins and 18 informational messages handled during the last 8.5 hours.

Not exactly what I had planned to do on Thursday, March 25th. But then again, it probably wasn't what most people had planned to do. We just never know. I handled health and welfare as well as public service information and acted as a clearing house (Rumor Control) for the seven counties that make up the District 1 (Clackamas, Clatsop, Columbia, Multnomah, Tillamook, Washington, and Yamhill Counties). Most of the traffic was from the Yamhill County area which to have been the hardest hit. It was "Rewarding" to see where the amateurs passed along information before any of the local media had it available. Makes me wonder, when I would receive a report and then 10 minutes later I would see it on the TV, whether they were monitoring our frequencies.....

For the most part, the net worked well. On a 30 minute schedule, I secured the net on the 147.32 repeater long enough to check in with the Oregon State OEM net that had been established on the 146.860 repeater and passed along any new information that I had received. I also handled checkins by representatives from other county ARES groups that had been activated.

I do have some comments on how to "Interface" with a net controlled environment but that will be discussed in another article. There were some initial teething problems encountered but they were neither severe nor un-surmountable. I just think that it would help some operators to get involved with a network environment. It would have helped cut down some of the duplication and facilitated smoother transfer of information. From the reports I received from the Oregon OEM/ARES liaison - K7MYU, things went well and the support was appreciated and well handled.

I could have used the sleep but helping fill the need via amateur radio was more rewarding. Thanks to all who checked in and helped handle traffic and information into and out of the net. It just re-establishes what I have said for a long time. When it is needed, the amateurs operate very professionally. 73's and catch you all on the 147.32 net.

Wash. Co. Tower Regulation Update

by Dale Mosby, N7PEX

At the March meeting Stan Griffiths, W7NI, presented information on the planning workshops held March 23 and 25. We had a good turn-out of amateur operators for those meetings. The next event is a hearing April 6 at 10AM. If you receive this newsletter before that date and are able to attend please do so. Call the Washington County Land Development Office (648-8761) to confirm the date and location.

I don't know at what date ordinance 414 which will regulate Amateur Radio towers will be adopted. There will be an update giving the status of this at the April meeting. If you would like to make your opinions on the subject of tower regulations write a letter to the Board of County Commissioners, 155 N First, Hillsboro, Or. 97124. They are trying to determine what height limit should be placed on towers, what setback should be required, how many towers should be allowed, and what sort of a permit process should be required.

OTVARC Club Contacts

OTVARC Executive Board

President	Dale Mosby	N7PEX	640-0217
Vice Pres	Alan Churchill	AA7CV	639-5660
Secretary	Brad Beach	N7NVC	657-1781
Treasurer	Carl Clawson	WS7L	629-5796
Trustee	Al Berg	WB7SIC	640-5456
Trustee	Dave Morrison	W7JXU	645-8788
Trustee	Ira Rubin	KF7QS	244-3070
Trustee	Lynn Hurd	WB7UNU	649-9152
Trustee	Wes Allen	K7WWG	649-3295

Other Club Contacts

ARRL Coordinator	Bob Orr	WF7Q	297-2732
Bunny Hunting	Dale LeBarron	W7FBP	638-7768
Contesting	Open		
DX News	Rich Jones	KG7FS	645-9417
Equipment Valuation	Randy Stimson	KZ7T	297-1175
Equipment Trustee	Al Berg	WB7SIC	640-5456
Emergency Services	Tim Taylor	N7UCA	292-6830
Field Day	Carl Clawson	WS7L	629-5796
Health & Welfare	Pat Griffiths	KA7UFG	649-0837
Member Badges	John Klein	KA7ICV	281-0798
Newsletter Editor	Alan Churchill	AA7CV	639-5660
Newsletter Layout	Doug Reeves	N6XHW	690-0596
Newsletter Distribution	Al Berg	WB7SIC	640-5456
Nomination of Officers	Alan Roehl	KO7B	292-5243
Project Night	Open		
Public Relations	Bill Merwin	N7VZF	644-1974
Public Service	Randy Stimson	KZ7T	297-1175
Repeater	Wes Allen	K7WWG	649-3295
RFI & TVI	Dale Mosby	N7PEX	640-0217
Satellites	Red Robert	AA7CP	357-5747
Scholarship	Pat Griffiths	KA7UFG	649-0837
Sea-Pac	Al Berg	WB7SIC	640-5456
	Brad Beach	N7NVC	657-1781
	Jim Schaeffer	KB7ADH	245-2518
	Alan Churchill	AA7CV	639-5660
Technical	Joe Boyd	N7VZS	678-2188
Tower Ordinances	Stan Griffiths	W7NI	649-0837
Trailer	Dee Lynch	KA7NPN	646-4580
Training (Code)	Tom Durell	KG7RD	
Training (Novice/Tech)	Dave Morrison	W7JXU	645-8788
Training (Upgrade)	Joe Boyd	N7VZS	678-2188
VE Testing	Alan Roehl	KO7B	292-5243
VE Test Schedule	John Klein	KA7ICV	281-0798
VHF/UHF	Bill Roth	N7RYW	297-7605

SEA PAC HAM CONVENTION

- ☐ **ALAN CHURCHILL, AA7CV** (503) 639-5660
☐ **AL BERG, WB7SIC** (503) 640-5456
☐ **BRAD BEACH, N7NVC** (503) 657-1781
☐ **JIM SCHAEFFER, KB7ADH** (503) 245-2518

P.O. BOX 219142

PORTLAND, OREGON 97225-9142

OTVARC Club Information

Purpose: The Oregon Tualatin Valley Amateur Radio Club, a non-profit corporation, wants to be instrumental in helping the prospective as well as established Amateur to become a proficient communicator in the Amateur Radio Service.

Additionally, the intent is to promote the advancement of Amateur Radio Service through the following five objectives:

1. Education & training of new and licensed Amateurs.
2. Public Service during public events & community activities.
3. Emergency communications during emergencies & disasters.
4. Hobby enhancement through meetings, nets & contests.
5. Social contact with other amateurs & interested persons.

Special Service Club: OTVARC is an ARRL Special Service Club. The ARRL grants us this distinction due to our participation in emergency preparedness exercises, public service events and other service-oriented programs. In addition, continuing educational and training programs are conducted for FCC licenses. OTVARC benefits from you joining the ARRL through OTVARC. To join or renew your membership in the ARRL, contact the treasurer at any regular meeting.

Newsletter: The OTVARC Oscillator is the club newsletter. It is published monthly and is usually mailed on the first of the month. The opinions, views and recommendations of its contributors are not necessarily those of the Club, it's officers, advertisers or the Editorial Staff.

Correspondence: All correspondence may be sent to OTVARC, PO Box 5132, Aloha, OR 97006-0132.

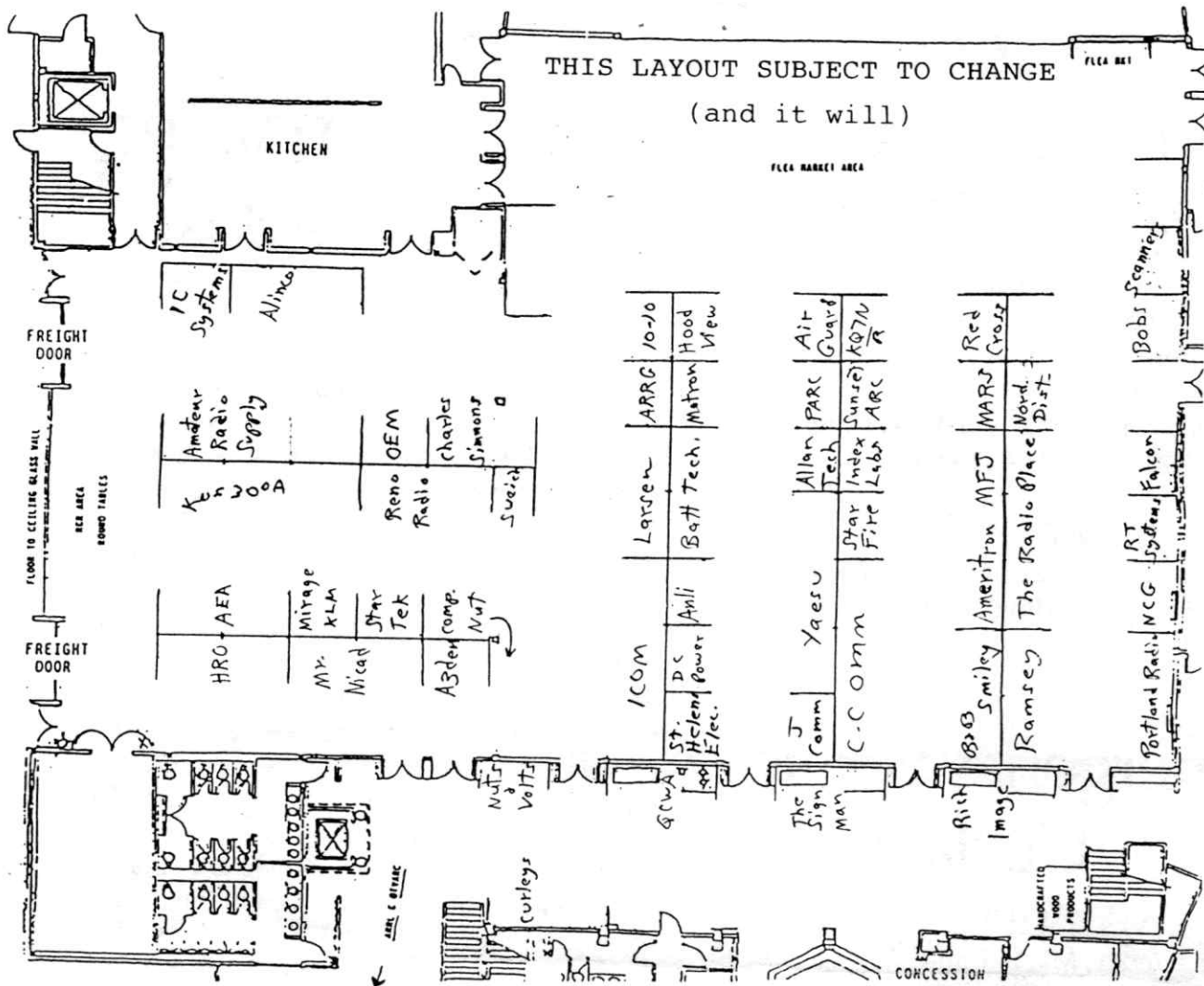
Advertising: Classified ads are free to all paid up members. Display ads are available to approved commercial interests. To place an ad, mail your camera ready copy to the address above and indicate the size desired. All display ads run for six months at a time from April through June and July through December. All ads must be paid for in advance. Rates for 1993 are as follows:

Full Page	8" X 10"	\$200 for 6 months.
Half Page	8" X 5"	\$125 for 6 months.
Qtr Page	4" X 5"	\$75 for 6 months.
Bus Card	2" X 3"	\$35 for 6 months.

Meetings: We have two meetings per month. The board meeting is on the first Wednesday of each month. All club business is conducted at this meeting. All members are welcome to attend. Contact the President for location and time. The General Meeting is on the second Wednesday of each month at the Beaverton Elks Club, 3500 SW 104th Ave (1 block off Canyon road). Meetings start at 7PM. If you would like to come early, you can get a nice meal from the Elks for less than \$6.

Membership: OTVARC is open to anyone who breathes. You do not need to be a licensed radio amateur to join our group. Dues are as follows: Full member, \$10/yr; Associate member (nonlicensed), \$10/yr; Family members of full member, \$5/yr; Life memberships available - see Treasurer. Only full members and life members may vote on club business and serve as club officers. All memberships expire on the last day of the calendar year. If you would like to join during the year, see the club Treasurer for reduced dues.

How to Join: Simply mail the Member Application and Renewal Form along with your dues to the address above.



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REGISTRATION

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_____ Registrations at \$6.00 ea. (\$8.00 at the door)	\$ _____
_____ Teens Convention Registration at \$2.00 ea. (No Awards)	\$ _____
_____ Children 12 and under FREE.	
_____ Flea Market Tables at \$10 per table per day or \$17 per table for 2 days	\$ _____
_____ Saturday QCWA Lunch at \$10.00 (120 person limit)	\$ _____
_____ Saturday Ladies Luncheon at \$10.00 (80 person limit)	\$ _____
_____ Saturday Banquet Halibut Dinner at \$19.00 ea	\$ _____
_____ Saturday Banquet Ham Dinner at \$16.00 ea	\$ _____
	400 person limit
	Total \$ _____

NOTE: Flea Market Participants must
be registered for the convention.

Registration Questions:
Brad 503-657-1781

NAMES (please print)

Calls

Address _____
City _____ State _____ Zip _____ Phone(_____) - _____ - _____

FOR SALE OR TRADE OR WANTED

Wanted: Your ad here. It's free. Just grab Alan Churchill at the next meeting with your ad written out. Free is a very good price.

Wanted: Yaesu FTV 650 B 6M transverter. Under \$100. Ed N7SNT 636-8226.

For Sale: TR4 Drake Tranceiver. Includes manuals, Power supply, desk mic. 6146 finals. Phone Gordon W7MAM at 324-9600 for details.

Emergency Services Update

by Tim Taylor, N7UCA

On Sunday, March 28th 1993 from 14:00 to 16:00 local time, Washington County ARES conducted a combined packet/voice Simulated Emergency Test. Our purpose was to test packet coverage, including the deployment of portable stations, and the suitability of enhanced packet software for emergency nets. The turn out was excellent, with 25 checkins to the voice net and 20 checkins on packet - not bad for a sunny Sunday afternoon! There were 29 pieces of formal traffic sent by packet and one by voice.

A special thanks to all stations that participated. Participants included stations from Clackamas, Multnomah, Washington and Yamhill counties. Bill-N7VZF and myself operated portable stations from a couple of hill tops near the North & South ends on the county. Ben-N7OGM, the Washington County ARES EC, ran the voice net while Bill and I ran packet conferences. At one point we had 16 packet stations simultaneously connected in two linked conferences, all on the same frequency. I will admit, it did get a little busy!

From the OTVARC Post Office Box...

by Dale Mosby, N7PEX

We received several club newsletters each month and I now have quite a large collection. I will have these at the next club meeting. If you would like to learn about the happenings at some other Amateur Radio clubs take a look at these. I know if you do this you will be impressed with the quality of the OTVARC newsletter.

I received some AEA catalogs this month and will be bringing those to the meeting. If you are interested in packet radio or amateur television you might be interested in one of these catalogs. They also sent some literature on their IsoLoop antenna and the new PK-900 controller. They are coming out with an automatic tuner for their IsoLoop antenna.

Another catalog that arrived in the mail was from Ramsey. I was not aware of all the kits they provide. I ordered a couple of their infra-red transmitter and receivers and hope to experiment with these, eventually building a wireless headset. I have the Heil headset with boom microphone and it is great but I sure hate the wires. If anyone knows of a commercial (and affordable) wireless headset that provides both transmit and receive please let me know. I had the folks at Ramsey toss in a few extra catalogs and I will bring those to the April meeting.

In the next few weeks we will be evaluating the exercise, looking at what did or didn't work well, and why. This will help us establish proven procedures to make packet radio a viable integrated part of our emergency communications response plan. If anything, the earthquake on 25 March has driven home the point that it can happen here too! How prepared are you?

THE OREGON BEEPER

In long and sometimes rambling SSB contacts, an indicator when a station stops transmitting can be helpful. Having a surplus of reed relays, I put together a gadget that fits between the microphone and the transceiver mike connector and inserts a short tone burst at the end of each voice transmission. It contains three SPST reed relays and a twin-T RC tone oscillator and can be powered from its own batteries or 12 VDC from the rig, if available. The coils of relays RR2 and RR3 are paralleled with a resistor R1 in series with a large capacitor C1 and these relays close when you push the mike PTT button but open with some delay while C1 discharges. The diode D1 prevents the capacitor from discharging through the coil of RR1 so this relay opens without any delay when the mike PTT button is released.

When you hit the mike button the PTT line is grounded and all three relays close. RR3 grounds the PTT circuit to the transceiver and turns it on. RR2 puts DC voltage on the tone generator. RR1 shorts capacitor C2 to prevent the tone oscillator from starting. The delay capacitor for RR2 and RR3 is charged through R1. Speaking into the microphone will generate a normal voice transmission.

Releasing the mike button will cause RR1 to drop out and a tone signal to be applied to the mike circuit. As RR2 and RR3 are still closed for another 50-100 milliseconds, depending upon the size of C1 and the coil resistance of the relays, the tone will modulate the transmission for that length of time. A brief "beep" will be heard over the air.

The DC supply voltage and the size of C1 depend upon the type of reed relays available. I used 5 V models with a coil resistance of 145 ohms which worked fine off 6.3 and 9 V DC supplies. Different sizes of C1 may be tried for the desired delay (beep) duration. The purpose of R1 is to limit the peak charge current into C1.

A small signal AF transistor is used as Q1. For optimum operation, C2 should be about twice the capacitance of C3 or C4 ($C3 = C4$) and R5 about 1/10 the resistance of R3 or R4 ($R3 = R4$). The values shown in the parts list will produce a tone of around 750 Hz. An SPST switch is put in series with R2 to silence the beep when so desired.

The unit is enclosed in a metal box to be protected against RF fields and a well shielded cable is used to connect it to the transceiver. The prototype was tested unshielded and caused horrible audio quality from RF pickup.

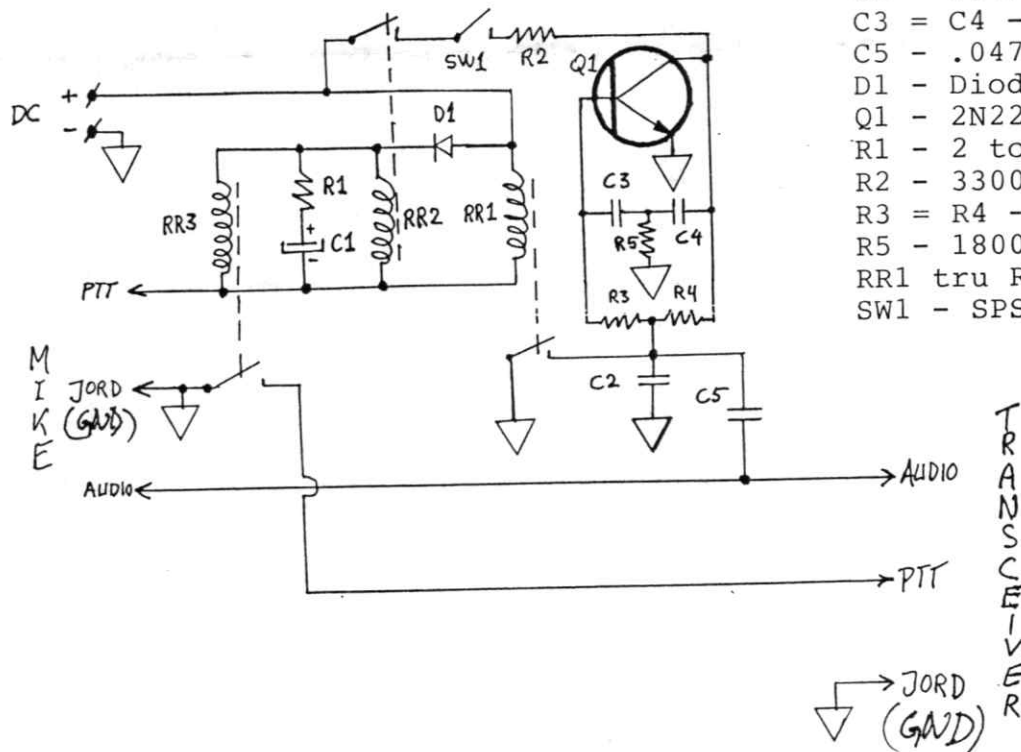


Rig: TEN-TEC OMNI V + SB-220; 100 500 1000 W RF
Antenna: Dipole, 80 m Delta loop, Explorer 14 yagi

JAN K. MOLLER *K6FM*
P. O. BOX 1442
GRANTS PASS, OR 97526

OREGON BEEPER parts list

- C1 - 1000 MFD 35 WVDC elyt.
- C2 - .047 MFD ceramic
- C3 = C4 - .022 MFD ceramic
- C5 - .047 MFD ceramic
- D1 - Diode, 3 amp 50 V PIV
- Q1 - 2N2222 or similar
- R1 - 2 to 5 ohm, 1 W
- R2 - 3300 ohm 1/2 W
- R3 = R4 - 18 kohm 1/2 W
- R5 - 1800 ohm 1/2 W
- RR1 thru RR3 - SPST reed relay
- SW1 - SPST toggle switch



Convention Schedule

Friday, June 1

Registration
Exhibitor & Flea Market (**SETUP ONLY**)
Evergreen AirVenture Museum & Spruce Goose (Seaside)
Ladies Hospitality Suite (Huntley, Rm 125)

Saturday, June 2

Registration
Exhibits & Flea Market
Ladies Treasure Hunt
Snack Bar
Kids, Krayons & Karloons
VE Exams (Pre-Registration, 1st Session, Oceanview Tillamook)
Seminars
ORRC Meeting (Oceanview Ballroom 3)
QCWA Luncheon (Oceanview Ballrooms 1 & 2)
Ladies Luncheon & Pgm (Oceanview Seaside Room)
VE Exams (Pre-Registration, 2nd Session, Oceanview Tillamook)
Banquet
Ladies Hospitality Suite (Huntley, Rm 125)

Sunday, June 3

Registration
Seminars
Exhibits & Flea Market
Snack Bar
Kids, Krayons & Karloons
Grand Awards
Convention Closes
Ladies Hospitality Suite (Huntley, Rm 125)

Ladies Hospitality Suite

Huntley Inn Room 125

Coffee, Conversation, & Cards
Friday 5 pm to 8 pm
Coffee, Treats and Seminars
Saturday 9 am to 5 pm
Sunday 9 am to 12 noon

Ladies Luncheon

Oceanview Seaside Room
Luncheon Menu: Chicken Bavarian
Mystique from the Sea
by Rick S. Jeweller, U.S. Travel

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Grand Awards

Need Not Be Present To Win

Kenwood TS 50S Mini HF
Kenwood TM741A Tri-Band VHF/UHF
ICOM W21AT . . Dual Band HT
Alinco DR600T . Dual Band Mobile
Yaesu 2400H . . 2m Mobile

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HOURLY AWARDS

**Posted in the lobby and
on stage for 2 hours.**
Those unclaimed will be re-issued.

Major Awards

Must Be Present

Yaesu FT411E 2m Mobile
ICOM IC 21A 2m HT
Alinco DJ180 2m HT
MFJ 209 SWR Analyzer
(and more)

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Early Bird Awards

Registrations

Postmarked By:

April 30, 1993

will be eligible for a

Three Special Early

Bird Awards:

- Startek Frequency Counter
- IC Systems Dual Band Antenna
- Kenwood TH28A 2m HT

Talk-In

Talk-In Frequency
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40 N. Warrenton Dr.,
(503) 86

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Hamlet Rt., Box 255,
(503) 73

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RV RESORT AT C

lk Creek Rd., Bx 219,
(503) 43

CLE CREEK RV PA
Hwy. 101 S., Box 210
(503) 73

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Exhibit
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Seminars

As of March 6, 1993

Beginners Programs:

- Baluns: What They Do and How They Do It
- Antenna Basics
- New Amateurs and Emergency Communications
- Proper Operating Procedures
- Construction Projects for Beginners

Packet Programs:

- Introduction to Digital Communication
- Beginning Packet
- Intermediate Packet
- Advanced Packet
- HF Digital Communication

Emergency Preparedness:

- ARES, RACES, & Disaster Communications
- FEMA
- Emergency Response
- Basics of Hidden Transmitter Hunting
- The Challenge of QRP

Forums:

- The ARRL Forum
- DXCC Forum
- FCC Forum

ARRL Guests

George S. Wilson III, W4OYL,
President

Mary Lewis, W7GCP,
NW Division Director

Richard K. Palm, K1CE,
Field Services Manager

Bill Moore, NC1L,
DXCC Manager



Banquet

Sea-Pac is very fortunate to have George Wilson III, W40YI, President of ARRL coming to our convention. George will tell us about the current state of amateur radio and the ARRL.

The FARS-AEA CW contest awards will be presented by Rod Proctor, N7UDD, President of AEA.

The 1993 banquet program is highlighted by a visit from Stanley Hamm, who has really done it now. The FCC is after him big time. For those of you who have seen past visits from Stanley you'll really enjoy this one.

4th Annual Ham of the Year and Club of the Year Awards

Sea-Pac will present the fourth annual awards for the outstanding amateur radio operator and the outstanding club at the Grand Awards presentation on Sunday, June 6th at 1:00 p.m.

Ham Of The Year: Someone who has made an outstanding achievement or contribution to the hobby. The winner will receive a plaque in recognition of this honor.

Club Of The Year: Presented for consistent contribution to amateur radio.

The club award is \$300.00.

Contact Susan Benson, N7EPE,
(503) 640-1989

Friday Evening Program "Spruce Goose"

Our Friday night program this year will be presented by the Evergreen AirVenture Museum on the disassembly and moving of the Spruce Goose to its new home near the McMinville Airport. This promises to be an exciting event! Plan to bring the whole family. We'll see you at the Seaside High School Cafeteria, 1901 N. Holladay at 7:00 p.m. Friday, June 4, 1993.

From the Editor

by B. Douglas Reeves, N6XHW

As many of you can tell, the *Oscillator* is a bit thin this month. No, it's not an April fool's joke, but our editor, Alan has been out of town as of late, so there is little for the newsletter. I am working on a way for those of you on packet to mail articles and classifieds directly to me on internet.

Until then, keep those submissions flowing to me or Dale, N7PEX until Alan returns. Details to follow at the April meeting.

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Daily Net Listing for Two Meters

by Bill Roth N7RYW

145.27	Daily	5:50 AM	Weather Net
145.27	Daily	4:24 PM	Weather Net
146.78	Daily	7:30 PM	Dist 4 ARES (Corvallis)
147.32	Daily	6:05 PM	Traffic and training net.
147.32	Daily	7:30 PM	District
145.27	Mon.	8:30 PM	YL & Ladies Net
146.84	Mon.	7:00 PM	Portland ARC news.
146.86	Mon.	7:00 PM	ARES net.
147.00	Mon.	8:00 PM	CCRA Service net.
145.27	Tue.	6:00 PM	DX Linkup to the East
145.27	Tue.	9:00 PM	Computer Net
146.90	Tue.	7:00 PM	WA Co. ARES Net
147.24	Tue.	8:00 PM	Swap n Shop
145.19	Wed.	8:00 PM	NW Astronomy Net
145.27	Wed.	8:00 PM	Intertie Checkin
147.28	Wed.	7:30 PM	Hoodview ARC net.
145.27	Thur.	7:00 PM	Intertie Technical
145.27	Thur.	9:00 PM	NAPRA Packet Ragchew
145.35	Thur.	7:30 PM	Swapnet & Newslane.
146.64	Thur.	7:15 PM	Yamhill Co. ARES
146.86	Thur.	7:00 PM	ARES net.
145.27	Fri.	8:00 PM	Youth Net.
145.27	Sat.	9:00 AM	Swap Net
145.27	Sat.	12:00 PM	Nightowls Net
145.27	Sun.	10:00 PM	Astronomy Net

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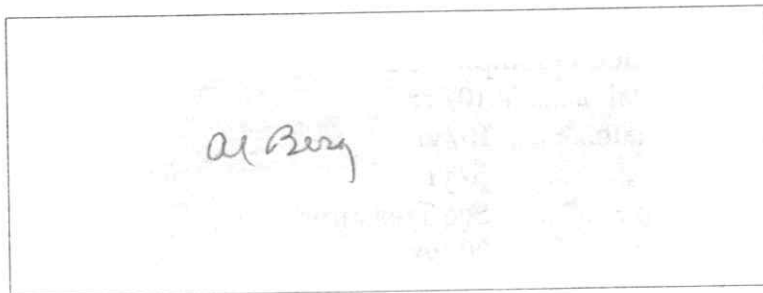


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